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Given the vector differential equation $\dot{x} = Bx + Hf(\sigma)$ where $\sigma = L'x$ and x is a vector, B is an $n \times n$ matrix, H is an $n \times 1$ matrix, L' is a $1 \times n$ matrix, and σ and $f(\sigma)$ are scalars, it is shown that (1) If the control is subject only to the restriction that $\sigma f(\sigma) > 0$ there does not in general exist a Liapunov function of the form $V = 1/2x^T Mx + \int^{\sigma} f(\sigma) d\sigma$ that will guarantee asymptotic stability even though the controlled plant is asymptotically stable, and (2) if the control is subject to the restriction $c_1 \sigma^2 < \sigma f(\sigma) < c_2 \sigma^2$ conditions sufficient for (Mathematics, TT, v. 6, no. 1) (over)

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